

Orionid meteor shower

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About Orionid meteor shower

- It is an annual phenomenon that lights up the night sky every October.
- It is produced when Earth passes through the debris left behind by Halley's Comet, officially known as 1P/Halley.
- This comet, which orbits the sun approximately every 76 years, expels dust particles from its nucleus, creating a trail of debris in its path.
- Each year, our planet intercepts this path in late October, resulting in the Orionid meteor shower.
- Halley's Comet, measuring about five by nine miles in size, loses between three to ten feet of material on each passage through the inner solar system.
- The Orionids are visible in both the Northern and Southern hemispheres during the hours after midnight.

What is a meteor?

- When meteoroids enter Earth's atmosphere at high speed and burn up, the fireballs or "shooting stars" are called meteors.
 - Meteor showers occur annually or at regular intervals as the Earth passes through the trail of dusty debris left by a comet.
 - Meteor showers are usually named after a star or constellation that is close to where the meteors appear in the sky.
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Q1) What is a meteoroid?

A meteoroid is a small rocky or metallic object that travels through space. Meteoroids are smaller than asteroids, typically ranging in size from a grain of sand to a few meters in diameter. These objects can be composed of various materials, including rock, metal, or a combination of both.

Source: [Is Halley's Comet returning? Here's what is happening on Sunday](#)

Source: <https://vajiramandravi.com/current-affairs/orionid-meteor-shower/>

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